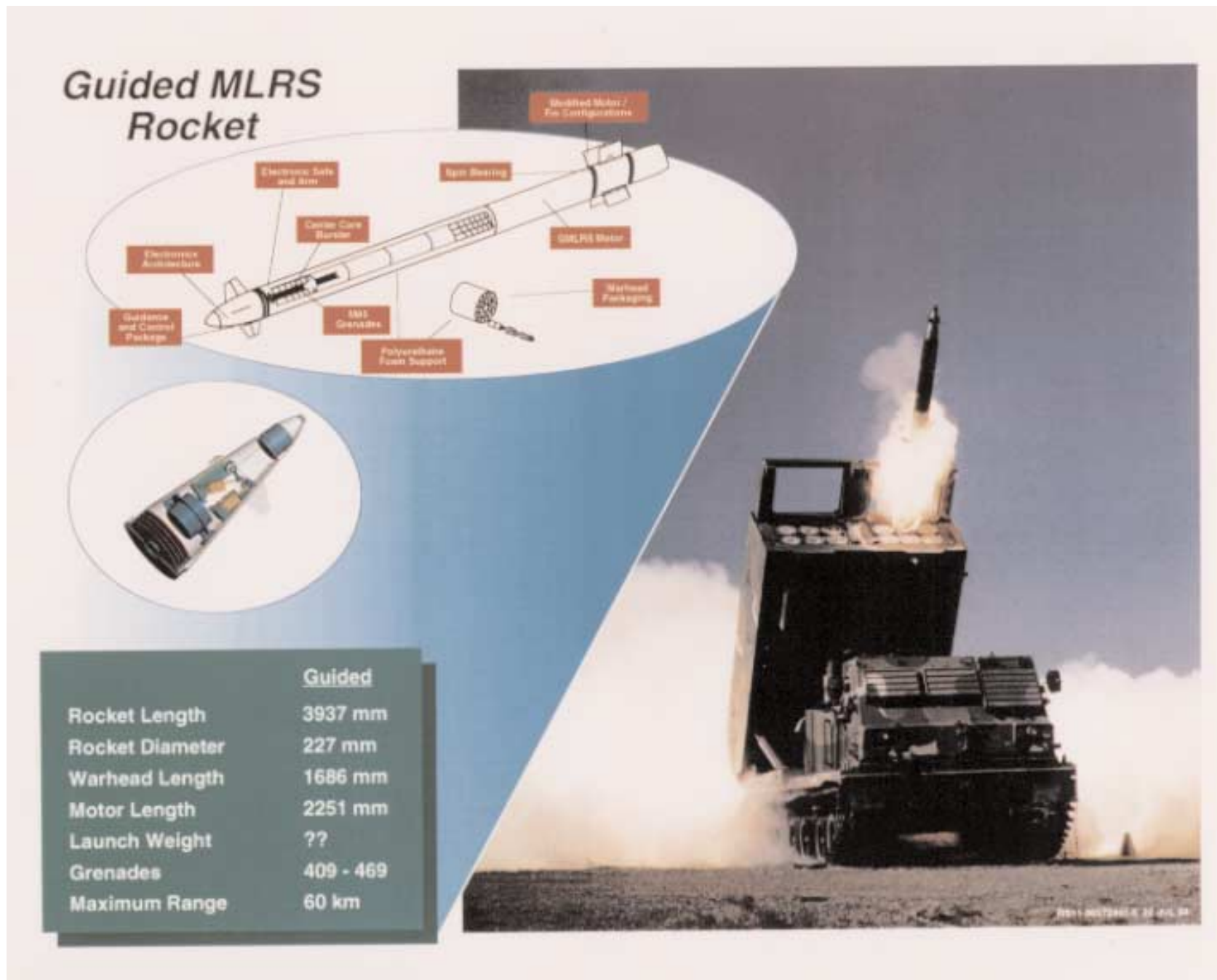


# Guided Multiple Launch Rocket System (GMLRS)



**MISSION**

Provide longer-range and more accurate rockets with a lower submunition hazardous dud rate for the Multiple Launch Rocket System (MLRS).

**DESCRIPTION AND SPECIFICATIONS**

The Guided Multiple Launch Rocket System (GMLRS) is the next logical step in the evolution of the MLRS rocket after the Extended Range Multiple Launch Rocket System (ER-MLRS). Utilizing various components of the ER-MLRS (e.g., grenades, rocket pod, etc.), it will transform the ER-MLRS freeflight rocket into a guided rocket by incorporating a guidance and control package. This provides greater accuracy and range greater than 60 km. Control will be accomplished by four canards driven by electromechanical actuators.

Guidance will be performed by a low-cost tactical-grade inertial measurement unit (IMU) which will be aided by a Global Positioning System (GPS) receiver. Required accuracy will be met with the IMU in an independent mode. GPS is not mission-essential, but provides a further increase in accuracy when used in conjunction with the IMU. The guidance and control package in the GMLRS will form the basis for the future MLRS Smart Tactical Rocket (MSTAR) with a precision-guided smart submunition.

**Warhead:** Dual Purpose Improved Conventional Munition (DPICM)

**Propulsion:** Solid

**Guidance:** GPS-aided IMU

**Control:** 4-axis Canard

**FOREIGN COUNTERPART**

The Israeli Ministry of Defense is developing a ground-commanded, trajectory-correcting MLRS variant.

**FOREIGN MILITARY SALES**

None

**PROGRAM STATUS**

**1994** Commenced the Advanced Technology Demonstration (ATD) phase, which is managed by the U.S. Army Aviation and Missile Command's Missile Research, Development, and Engineering Center.

**3QFY98-2QFY99** Conducted five ATD flight tests.

**1QFY99** Transitioned GMLRS program to the engineering and manufacturing development (EMD) phase, which is managed by the project manager, MLRS, as an international cooperative development program with France, Germany, Italy, and the United Kingdom.

**4QFY99** Successfully completed the EMD preliminary design review.

**PROJECTED ACTIVITIES**

**4QFY00** EMD critical design review.

**2QFY02** Low-rate initial production decision.

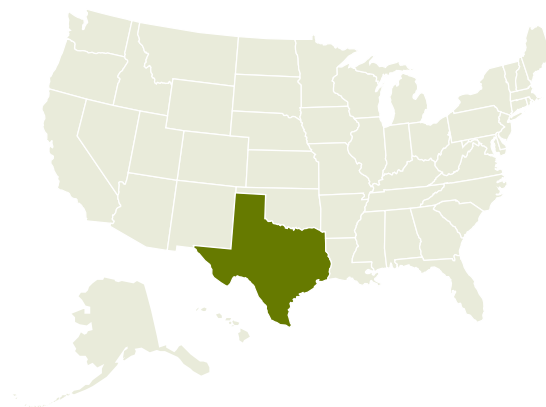
**3QFY03** Initial operational test.

**1QFY04** Milestone III decision.

**4QFY04** Initial operational capability.

**PRIME CONTRACTORS**

Lockheed Martin (Dallas, TX)



\* See appendix for list of subcontractors

